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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO			Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	09/689,577
Sheet	of		Filing Date	October 12, 2000
			First Named Inventor	Edward Edelman
			Group Art Unit	2834
			Examiner Name	Julio C. Gonzales
			Attorney Docket Number	033558.0012.CON1

AJ	BG	4,071,897	Groves, Jr., et al	01-31-1978	
JJ	BH	4,087,711	Kirtley, Jr., et al	05-02-1978	
JJ	BI	4,114,048	Hull, et al	09-12-1978	
JJ	BJ	4,118,926	Curvino, et al	10-10-1978	
JJ	BK	4,144,482	Schwab	03-13-1978	
JJ	BL	4,149,233	Nagano	04-10-1979	
JJ	BM	4,164,661	Hucker, et al	08-14-1979	
JJ	BN	4,195,231	Reed, et al	03-25-1980	
JJ	BO	4,245,163	Philippe	01-13-1981	
JJ	BP	4,262,209	Berner	04-14-1981	
JJ	BQ	4,270,165	Carpenter, et al	05-26-1981	
JJ	BR	4,276,590	Hansel, et al	06-30-1981	
JJ	BS	4,305,129	Yannone, et al	12-08-1981	
JJ	BT	4,340,820	Meyer-Pitroff, et al	07-20-1982	
JJ	BU	4,346,304	Tsunoda, et al	08-24-1982	
JJ	BV	4,349,744	Reuther, et al	09-14-1982	
JJ	BW	4,361,791	Plunkett	11-30-1982	
JJ	BX	4,413,676	Kervin	11-08-1983	
JJ	BY	4,414,804	Menard, et al	11-15-1983	
JJ	BZ	4,425,613	Shelly	01-10-1984	
JJ	CA	4,447,787	Schweisig, et al	05-08-1984	
JJ	CB	4,450,363	Russell, et al	05-22-1984	
JJ	CC	4,460,834	Gottfried	07-17-1984	
JJ	CD	4,467,216	Murphy	08-21-1984	
JJ	CE	4,469,954	Maehara	09-04-1984	
JJ	CF	4,508,487	Taylor, et al	04-02-1985	
JJ	CG	4,532,761	Takaoka, et al	08-06-1985	
JJ	CH	4,590,416	Porche, et al	05-20-1986	
JJ	CI	4,597,037	Okado	06-24-1986	
JJ	CJ	4,597,259	Moore, et al	07-01-1986	
JJ	CK	4,626,761	Blaschke	12-02-1986	
JJ	CL	4,631,954	Mills	12-30-1986	
JJ	CM	4,633,157	Streater	12-30-1986	
JJ	CN	4,647,834	Castleman	03-03-1987	
JJ	CO	4,680,691	Yoshino, et al	07-14-1987	
JJ	CP	4,684,875	Powell	08-04-1987	
JJ	CO	4,698,577	Seymour, et al	10-06-1987	

Examiner Signature	Julio C. Gonzales	Date Considered	06/09/03
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First Named Inventor	Edward Edelman
Group Art Unit	2834
Examiner Name	Julio C. Gonzales
Attorney Docket Number	033558.0012.CON1

CR	4,731,547	Alenduff	03-15-1988
CS	4,733,341	Miyazawa	03-22-1988
CT	4,763,058	Heining, et al	08-09-1988
CU	4,764,712	Blaschke, et al	08-16-1988
CV	4,788,873	Laney	12-06-1988
CW	4,827,152	Farkas	05-02-1989
CX	4,845,418	Conner	07-04-1989
CY	4,885,519	Vogelmann	12-05-1989
CZ	4,897,994	Shekleton	02-06-1990
DA	4,924,170	Henze	05-08-1990
DB	4,926,105	Mischenko, et al	05-15-1990
DC	4,994,981	Walker, et al	12-19-1991
DD	5,053,635	West	10-01-1991
DE	5,084,825	Kelly	01-28-1992
DF	5,099,408	Chen, et al	03-24-1992
DG	5,166,595	Leverich	11-24-1992
DH	5,166,597	Larsen, et al	11-24-1992
DI	5,168,208	Schultz, et al	12-01-1992
DJ	5,177,676	Inam, et al.	01-05-1993
DK	5,191,519	Kawakami	03-02-1993
DL	5,194,801	Rozman	03-16-1993
DM	5,204,595	Opal, et al	04-20-1993
DN	5,206,802	Blasko	04-27-1993
DO	5,230,607	Mann	07-27-1993
DP	5,257,180	Shashida, et al.	10-26-1993
DQ	5,262,677	Ramirez	11-16-1993
DR	5,302,906	Lerch	04-12-1994
DS	5,321,308	Johncock	06-14-1994
DT	5,327,718	Iwata, et al	07-12-1994
DU	5,336,991	Atherton, et al	08-09-1994
DV	5,390,068	Schultz, et al	02-14-1995
DW	5,408,821	Romero	04-25-1995
DX	5,420,782	Luce, et al	05-30-1995
DY	5,427,455	Bosley	06-27-1995
DZ	5,436,507	Brown, et al	07-25-1995
EA	5,436,512	Inam, et al	07-25-1995
EB	5,438,694	Muri, et al	08-01-1995

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Application Number	09/689,577
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First Named Inventor	Edward Edelman
Group Art Unit	2834
Examiner Name	Julio C. Gonzales

Attorney Docket Number 033558.0015.CON1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ¹ (if known)			
A	AA	RE 30,589		Park	04-1981	
A	AB	2,163,140		Coleman, et al	06-20-1939	
A	AC	2,917,635		Bloom	12-15-1959	
A	AD	2,920,211		Gotoh	01-05-1960	
A	AE	3,041,833		Vore	07-03-1962	
A	AF	3,151,250		Carlson	09-29-1964	
A	AG	3,221,172		Rolison	11-30-1965	
A	AH	3,591,844		Schonebeck	07-06-1971	
A	AI	3,611,717		Tissier	10-12-1971	
A	AJ	3,621,365		Beck, et al	11-16-1971	
A	AK	3,651,331		Raeber	03-21-1972	
A	AL	3,663,948		Nagae, et al	05-16-1972	
A	AM	3,675,037		Hamilton	07-04-1972	
A	AN	3,678,284		Peters	07-18-1972	
A	AO	3,703,663		Wagner	11-21-1972	
A	AP	3,718,837		Yokota, et al	02-27-1973	
A	AQ	3,775,649		Bayer, et al	11-27-1973	
A	AR	3,805,517		Sewell, et al	04-23-1974	
A	AS	3,806,785		DeValroger, et al	04-23-1974	
A	AT	3,830,055		Erlund	08-20-1974	
A	AU	3,846,693		Compoly, et al	11-05-1974	
A	AV	3,867,846		Cambren	02-25-1975	
A	AW	3,908,130		Lafuze	10-12-1976	
A	AX	3,930,367		Gasparoli	01-06-1976	
A	AY	3,986,038		Short	10-12-1976	
A	AZ	4,017,790		Friedlander	04-12-1977	
A	BA	4,019,315		Yannone, et al	04-26-1977	
A	BB	4,021,704		Norbeck	05-03-1977	
A	BC	4,033,115		Baits	07-05-1977	
A	BD	4,062,185		Snow	12-13-1977	
A	BE	4,062,186		Snow, et al	12-13-1977	
A	BF	4,069,424		Burkett	01-17-1978	

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Julio C. Gonzales

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Application Number	09/689,577
Filing Date	October 12, 2000
First Named Inventor	Edward Edelman
Group Art Unit	2634
Examiner Name	Julio C. Gonzales
Attorney Docket Number	033558.0012.CON1

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EC	5,440,221	Landau	08-08-1995
ED	5,442,907	Asquith, et al	08-22-1995
EE	5,450,306	Garces, et al	09-12-1995
EF	5,452,574	Cowell, et al	09-26-1995
EG	5,483,147	Ilic, et al	01-09-1996
EH	5,497,615	Noe, et al	03-12-1996
EI	5,523,937	Kahkipuro	06-04-1996
EJ	5,529,398	Bosley	06-15-1996
EK	5,550,450	Palko, et al	08-27-1996
EL	5,572,097	Cameron	11-05-1996
EM	5,592,067	Peter	01-07-1997
EN	5,594,320	Pacholok	01-14-1997
EO	5,596,492	Divan, et al	01-21-1997
EP	5,610,500	Giberson	03-11-1997
EQ	5,610,501	Nelson, et al	03-11-1997
ER	5,610,834	Schleuter	03-11-1997
ES	5,632,143	Fisher	05-27-1997
ET	5,635,768	Birch	06-03-1997
EU	5,635,773	Stuart	06-03-1997
EV	5,642,007	Gyugyi, et al	06-24-1997
EW	5,644,209	Chabbert	07-01-1997
EX	5,666,041	Stuart	09-09-1997
EY	5,734,257	Schauder, et al	03-31-1998
EZ	5,735,116	Mouton	04-07-1998
FA	5,745,356	Tassitino, Jr., et al	04-28-1998
FB	5,752,380	Bosley, et al	05-19-1998
FC	5,757,634	Ferens	05-26-1998
FD	5,764,024	Wilson	06-09-1998
FE	5,767,660	Schmidt	06-16-1998
FF	5,799,484	Nims	09-01-1998
FG	5,806,299	Bauermeister, et al	09-15-1998
FH	5,819,524	Bosley	10-13-1998
FI	5,827,040	Bosley, et al	10-27-1998
FJ	5,845,483	Petrowicz	12-08-1998
FK	5,850,732	Willis, et al	12-22-1998
FL	5,860,279	Bronicki, et al	01-19-1999
EM	5,867,380	Lee	02-02-1999

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	FN	5,872,710	Kameyama	02-16-1999	
	FO	5,896,736	Rajamani	04-27-1999	
	FP	5,899,673	Bosley	05-04-1999	
	FQ	5,903,116	Geis	05-11-1999	
	FR	5,915,841	Weissert	06-29-1999	
	FS	5,918,985	Bosley	07-06-1999	
	FT	5,936,370	Fukao, et al	08-10-1999	
	FU	5,965,996	Arledge	10-12-1999	
	FV	5,966,926	Shekleton, et al	10-19-1999	
	FW	5,982,143	Stuart	11-09-1999	
	FX	6,018,200	Anderson	01-25-2000	
	FY	6,020,713	Geis, et al	02-01-2000	
	FZ	6,023,135	Gilbreth, et al	02-08-2000	
	GA	6,031,294	Geis, et al	02-29-2000	
	GB	6,032,459	Skowronski	03-07-2000	
	GC	6,055,163	Wagner, et al	04-25-2000	
	GD	6,093,975	Peticolas	07-25-2000	
	GE	6,104,153	Codilian, et al	08-15-2000	
	GF	6,169,334	Edelman	01-02-2001	
	GG	6,274,945	Gilbreth, et al	08-14-2001	
	GH	6,281,601	Edelman, et al	08-28-2001	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
GI	EP	0 012 219	A1	Philipsen, et al.	06-25-1980			
GJ	EP	0 535 382	A1	Kranert, et al.	04-07-1993			
GK	EP	0 742 356	A2	Hepner, et al.	11-13-1996			
GL	GB	2 007 926	A	Yannone, et al.	05-23-1979			

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
MM	GM	BYRD, "Pumping Unit Geometry vs. Prime Mover Speed Variation as a Method of Torsional Reduction in a Beam and Sucker Rod Pumping System," <i>Soc. Petro. Eng. of AIME</i> , 12362:1-23 (1983)	
MM	GN	CORBETT, et al., "Control Requirements for the RB 211 Low Emission Combustion System," <i>Amer. Soc. Mech. Eng.</i> , 116:527-533 (1993)	
MM	GO	GIBBS, et al., "Utility of Motor-Speed Measurements in Pumping-Well Analysis and Control," <i>SPE Production Eng.</i> , 13198:199-208 (1987)	
MM	GP	GUFFY, et al., "Field Testing of Variable-Speed Beam-Pump Computer Control," <i>Soc. Petro. Eng. Prod. Eng.</i> , 20123:155-160;315-320 (1991)	
MM	GQ	LEA, et al., "Study of the Cyclical Performance of Berm Pump Motors," <i>Soc. Petro. Eng. of AIME</i> , 18827:1-8 (1989)	
MM	GR	NEELY, et al., "Power Savings and Load Reductions on Sucker Rod Pumping Wells," <i>Soc. Petro. Eng.</i> , 19715:141-147 (1989)	

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